

# February 2016

PERFORMANCE MEASURES

**Statewide Transportation Operations Center** 





# **WHAT IS STOC?**

The Statewide Transportation Operations Center (STOC) operates 24 hours a day, seven (7) days a week to monitor and manage traffic along the roadway system throughout five (5) MDOT regions. STOC operators utilize closed-circuit television cameras (CCTVs), dynamic message signs (DMS) and various other communication resources in order to receive and disseminate real-time traffic conditions to the motoring public.



#### <u>Summary of Terminology</u>

Communication – Any phone call, e-mail or radio transmission that comes into or goes out of the control room.

CRO - Control Room Operator

**Event** – A task in which a CRO is involved. Multiple categories of events exist (e.g., incident, construction, weather, or special event).

FCP - Freeway Courtesy Patrol

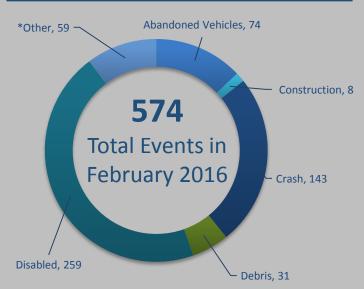
**FCP Assist** – Service provided to the motoring public for various incidents. Includes tire change, mechanical assist, provide gas, move debris, and traffic policing.

**High-Impact Incident** – Any incident that closes more than fifty percent of the freeway, closes both directions of an arterial, closes a freeway-to-freeway ramp, or a closure of less than fifty percent of the freeway/roadway but is also causing a significant delay.

*Incident* – An unplanned event that impacts the shoulder, lane(s) or a ramp of a state of Michigan trunkline (e.g., crash, vehicle fire, debris, or police situation).

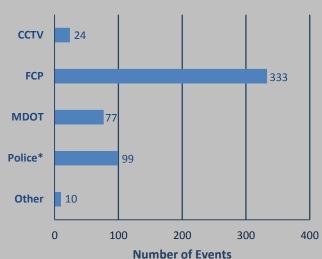
*Unique Message* – Any message posted to the dynamic messages signs (DMS) that relate to an incident, construction, special event, weather condition or an AMBER alert.

#### **Events by Type**



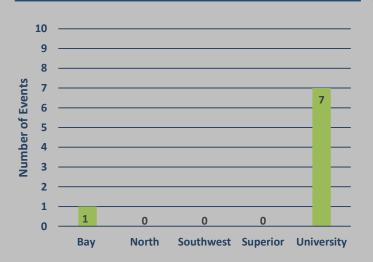
\*Other includes police situations, damage to MDOT property, maintenance, weather, AMBER Alerts, fire, special events, and other traffic impediments.

# **Incidents by Detection Source**



Of the **543** incidents in February 2016, **61%** were detected by Freeway Courtesy Patrol. \*Includes notification from dispatch, Nixles, and Bay Alerts.

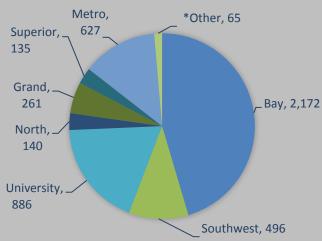
#### **Construction Events**



STOC CROs monitored and managed **8** construction events in February 2016.

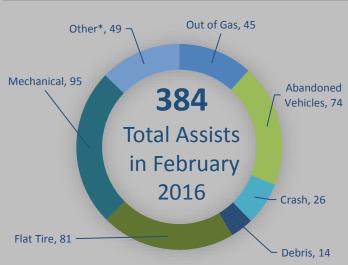
Note: CROs can manage multiple construction events, such as intermittent lane shifts and configuration changes, for each construction project managed by the TSCs.

## **Communications by Region**



CROs managed **4,782** notifications (phone calls, e-mails, radio transmissions) in February 2016, with the largest percentage of all communications, 45% (2,172) between the control room and **Bay Region**.

## **Assists by Type**



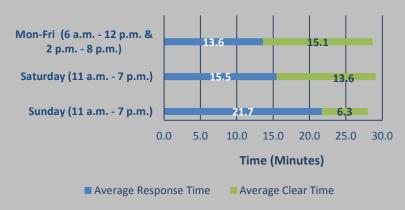
\*Other includes motorist sleeping, checking map, using cell phone, or medical emergency.

# **Dispatched vs. Found on Patrol**



Of the 384 assists in February 2016, **86%** (332) were found while FCP drivers patrolled their routes.

# **Average Assist Times**



The response and clear times for all FCP assists are logged by CROs. These numbers represent the average response and clear times for all drivers during the time periods shown.

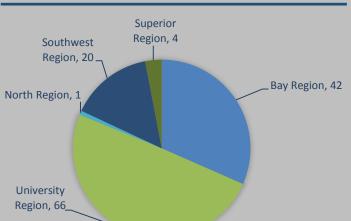
STOC has two FCP drivers working on two routes: one driver working in the Brighton area of I-96 and US-23 and the other driver working in the Ann Arbor area of I-94, US-23 and M-14.

## **FCP Assists by Freeway**

	Miles	Total	Avg. Assist Density Response Time		Avg. Clear Time	
Freeway	Patrolled	Assists	(assists per mile)	(minutes)	(minutes)	
US-23	26.5	142	5.4	13.7	13.5	
1-94	18	103	5.7	14.1	13.2	
I-96	11	63	5.7	22.3	15.9	
M-14	15.5	76	4.9	14.1	16.8	
Totals/Averages	71	384	5.4	14.4	14.7	

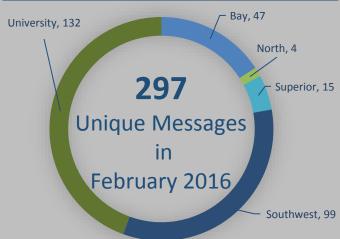
FCP provided the most assistance along **US-23** this month (**142 assists**). **I-94** and **I-96** both experienced the highest assists per mile (**5.7 assists per mile**).

## **Stuck in Traffic Notifications**



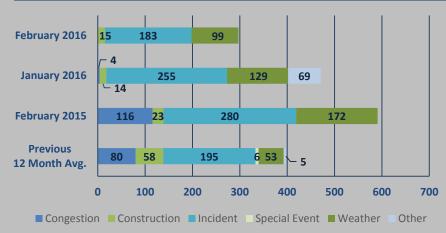
Stuck in traffic notifications are sent to the Control Room via motorists using the Mi Drive mobile website or Mi Drive Application.

## **DMS Messages by Region**



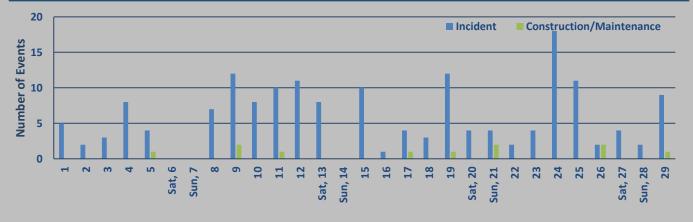
Of the **297** unique messages in February 2016, 44% of them were posted in the **University Region**.

## **DMS Messages by Type**



Once a CRO receives notification and confirmation from stakeholders regarding a specific event, a message specific to the event location and event type will be sent to appropriate dynamic message signs (DMS).

# **STOC Events Displayed on the Mi Drive Website**



## **Incidents by Freeway**

		February 2016			January 2016			February 2015		
Freeway	Miles	Total Incidents	Incidents per Mile	Average Duration	Total Incidents	Incidents per Mile	Average Duration	Total Incidents	Incidents per Mile	Average Duration
I-475	17	1	0.06	1,471.0	0	0.00	0.0	5	0.29	113.6
I-496	12	1	0.08	35.0	4	0.33	19.5	1	0.08	37.0
I-675	7	0	0.00	0.0	0	0.00	0.0	1	0.14	70.0
I-69	178	12	0.07	185.0	4	0.02	43.5	9	0.05	110.3
I-75 *	288	16	0.06	68.9	17	0.06	126.6	13	0.05	101.6
I-94 *	187	139	0.74	28.5	165	0.88	42.1	168	0.90	43.6
I-96 *	76	72	0.95	22.3	55	0.72	15.5	54	0.71	25.9
M-14 *	23	76	3.30	19.6	81	3.52	19.4	75	3.26	16.6
US-127	165	13	0.08	28.5	16	0.10	41.8	13	0.08	121.4
US-131 *	91	5	0.05	99.0	1	0.01	237.0	8	0.09	80.3
US-23	93	148	1.59	17.7	164	1.76	23.5	155	1.67	20.0
US-31 *	85	3	0.04	141.0	0	0.00	0.0	2	0.02	161.0
Total/Averages	1,222	486	0.40	32.5	507	0.41	32.6	504	0.41	35.6

<sup>\*</sup>These figures are discounted and do no include incidents on stretches of freeway managed by WMTOC, SEMTOC or BWBTOC.

#### **Total Incidents**



There were a total of **543 Incidents** in the month of February, **17 percent** of these were classified as high-impact.

A high-impact **Incident** is one that closes more than fifty percent of the freeway, closes both directions of an arterial, closes a freeway-to-freeway ramp, or closes less than fifty percent of the freeway/roadway but is also causing a significant delay.

#### **Longest Duration Incidents**

Location	County	Day	Duration	Details	
NB US-41 at Bridge Street	Houghton	Saturday, February 20	17,063 Minutes	Collapsed Building	
EB & WB M-28 between Kawbawgam Road & M-94	Marquette & Alger	Friday, February 12	1,633 Minutes	Whiteout Conditions	
SB I-475 Exit Ramp to M-54 (Dort Highway)	Genesee	Tuesday, February 9	1,471 Minutes	Water Main Break	
EB I-69 at Grand River Road	Shiawassee	Thursday, February 11	644 Minutes	Semi Crash	
WB I-69 at Miller Road	Genesee	Tuesday, February 9	512 Minutes	Multiple Semi Crash	

The top duration **Incident** this month occurred along **US-41** and lasted **17,063** minutes, compared to the average duration of **85.2** minutes (average of all STOC managed events).

